



TITLE:

# Emeritus Professor Yuzo Inouye, Cover & Contents

AUTHOR(S):

---

CITATION:

Emeritus Professor Yuzo Inouye, Cover & Contents. Bulletin of the  
Institute for Chemical Research, Kyoto University 1983, 61(2)

ISSUE DATE:

1983-08-15

URL:

<http://hdl.handle.net/2433/77035>

RIGHT:

# BULLETIN OF THE INSTITUTE FOR CHEMICAL RESEARCH

KYOTO UNIVERSITY

Vol. 61, No. 2

*Commemoration Issue Dedicated to  
Professor YUZO INOUE  
on the Occasion of his Retirement*

*Published bi-monthly by*

THE INSTITUTE FOR CHEMICAL RESEARCH  
KYOTO UNIVERSITY  
KYOTO, JAPAN

March 1983

*(Bull. Inst. Chem. Res., Kyoto Univ.)*

# INSTITUTE FOR CHEMICAL RESEARCH KYOTO UNIVERSITY

## Director

Eiichi FUJITA

## Members of Council

Yoshichika BANDO  
Ken-ichi KATAYAMA  
Michio KURATA  
Masaya OKANO  
Kenji SODA  
Mitsuru TAKANAMI  
Natsu UYEDA

Eiichi FUJITA  
Ryozo KITAMARU  
Masakazu MATSUI  
Tatsuo OOI  
Nobuyuki SUGITA  
Hidekuni TAKEKOSHI

Hiroshi INAGAKI  
Naokazu KOIZUMI  
Shinzaburo OKA  
Teruya SHINJO  
Toshio TAKADA  
Tohru TAKENAKA

## Publication Committee

Tetsuya HANAI  
Jun'ichi ODA

Hiroshi INAGAKI  
Shinzaburo OKA

Hiromasa MAZAKI  
Teruya SHINJO

## Business Staff

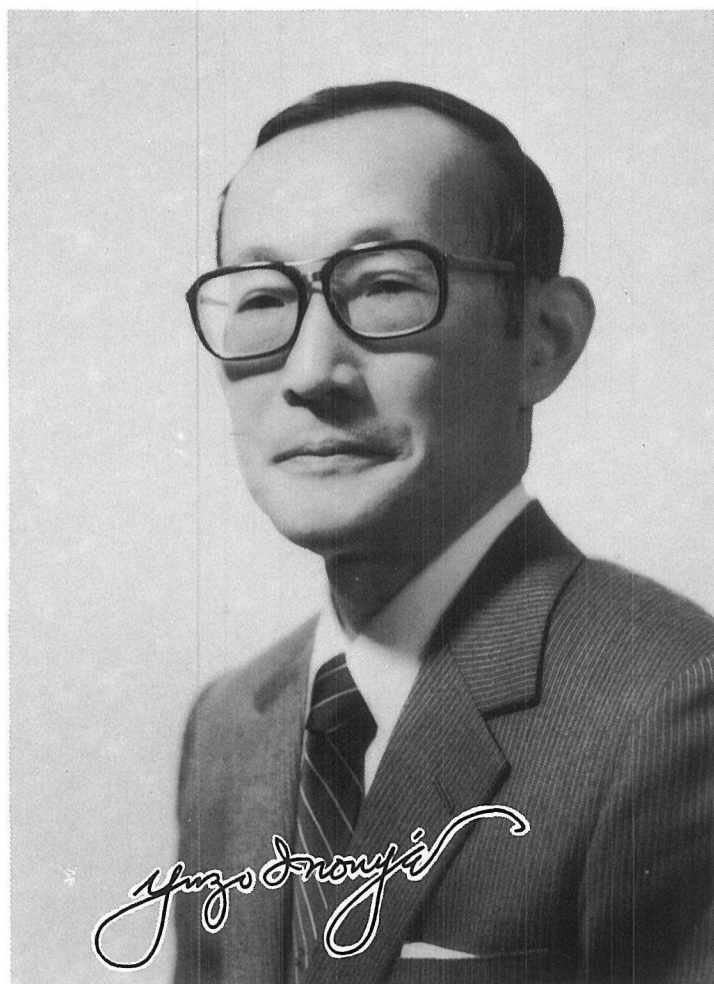
Tetsuo FUJIMOTO

Yasumasa HITOMI

Toshio NISHIMURA

## History of Publications

Term	Vol.	Title	Published
Jan., 1929– Dec., 1947	1–16	化学研究所講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
April, 1933	—	10 Jahre Institut für chemische Forschung (化学研究所創立十周年記念号)	—
March, 1949– Dec., 1949	17–19	化研講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
March, 1950– Sept., 1952	20–30	化学研究所報告 (Bulletin of the Institute for Chemical Research)	Quarterly
Dec., 1951	—	The Commemoration Volume for the Silver Jubilee (化学研究所創立二十五周年記念号)	—
Jan., 1953 onwards	31 No. 1–	Bulletin of the Institute for Chemical Research (化学研究所報告)	Bi-monthly
Nov., 1966	44 No. 6	Special Issue on the Commemoration of the Fortieth Anniversary (化学研究所創立四十周年記念号)	—
Nov., 1976	54 No. 6	Special Issue on the Commemoration of the Fiftieth Anniversary (化学研究所創立五十周年記念号)	—



井上雄三教授  
Professor Dr. Yuzo Inouye

## **Emeritus Professor Yuzo Inouye**

On the first of April, 1983, Dr. Yuzo Inouye retired, having completed 34 years of service at Kyoto University. He was honored with the title of Emeritus Professor by the Kyoto University on the following day.

Dr. Inouye was born in Tottori on March 25, 1920. He graduated from Faculty of Agriculture, Kyoto University in 1946 and then continued his studies on agricultural chemistry, as a graduate student at Department of Agricultural Chemistry, Kyoto University under the supervision of the late Professor S. Takei. After the graduation, he became a research associate of Department of Agricultural Chemistry in 1951 and started his academic career, majoring in chemistry of plant products and pesticides. In 1957, he joined the member of the Institute for Chemical Research, Kyoto University. During this period, he worked enthusiastically on pyrethrum chemistry, particularly on synthesis and stereochemistry of pyrethroids. By the brilliant works in this field, he was granted a doctor's degree from Kyoto University in 1958 and received the Award from Agricultural Chemical Society of Japan in 1959.

In connection with these pyrethrum studies, his research interest has been focused on stereochemistry, especially on asymmetric synthesis, which was investigated throughout the following three decades as Dr. Inouye's life work.

In 1962, he was promoted to assistant professor of the Institute. Immediately, on leave from university, he stayed at Florida State University, U.S.A. as a visiting professor and worked on asymmetric reaction in co-operation with Professor H. M. Walborsky.

In 1973, he was appointed full professor of Kyoto University and directed the Laboratory of Plant Product Chemistry, Institute for Chemical Research of the University. Over the years, Dr. Inouye conducted extensive research in the field of stereochemistry and played always a pioneering role in the field of asymmetric synthesis in this country. Of many achievements, the finding of solvent effect in asymmetric reactions and its theoretical support made an epoch to the development in this field. The prize from PRF administered by the American Chemical Society was awarded to him for his excellent achievements; he was the first Japanese winner.

In due course of these studies, he was interested in biomimetic synthesis, in which the investigation for both fundamentals and application was devoted to exploitation of useful chiral 1,4-dihydropyridine derivatives as an NAD(P)H model compound. Thereby, he contributed very much to the development of bio-organic chemistry.

He gave lectures on stereochemistry and pesticide chemistry at the graduate school of agricultural chemistry, Kyoto University and was charged with supervising dissertation works of graduate students, during which he trained many doctor candidates.

He also gave lectures as a visiting professor at several universities such as Kochi University, Yamaguchi University, Shinshu University, Tottori University, University of Osaka Prefecture and Mukogawa Women's University.

His sincere, thoughtful and warm personality is respected by friends, colleagues, students and all those who come in contact with him.

This collection of papers by his colleagues, former and present associates and students is dedicated to Dr. Inouye in honor of his sincere service for a long period and retirement.

A handwritten signature in cursive script, reading "Eiichi Fujita".

Eiichi Fujita

Director

Institute for Chemical Research

Kyoto University

井上雄三教授

Professor Dr. Yuzo Inouye

# CONTENTS

## Commemoration Issue Dedicated to Professor Yuzo Inouye on the Occasion of his Retirement

Hidehiko Tanaka, Nobuyoshi Esaki, and Kenji Soda: Synthesis of Amino Acids with Pyridoxal 5'-phosphate Enzymes .....	51
Tadashi Okamoto, Shin'ichi Yamamoto, Atsuyoshi Ohno, and Shinzaburo Oka: Selective Reduction of <i>N</i> -Substituted-2-carbamoyl Pyridinium Salts to the Corresponding Dihydropyridines Mediated by Low Valent Cobalt Complexes .....	64
Tameo Iwasaki and Kaoru Harada: A Synthesis of Phenylglycine and $\alpha$ -Methylphenylglycine by Electroreductive Carboxylation of Schiff Bases .....	72
Kazuo Matsumoto, Mamoru Suzuki, Ken-ichi Nunami, Naoto Yoneda, and Kazuo Takiguchi: Syntheses and Biological Activities of $\alpha$ -Isocyanoacetic Acid Derivatives .....	79
Norio Kurihara and Toshio Fujita: Composition of Partition Coefficients of Polychlorinated Hydrocarbons .....	89
Keizo Chano, Masashi Inoue, and Toshio Sugita: Intermolecular Hydride-Transfer Reaction. III. Friedel-Crafts Reaction of Aromatics with 1-Phenyl-2-propanol and Related Compounds .....	96
Hajime Ohigashi, Satoshi Nishimuro, and Koichi Koshimizu: Larva-Development Inhibitors of Black Pepper .....	104
<b>Notes</b>	
Toshihisa Ohshima, Satoshi Ito, and Kenji Soda: A Rapid Method of Purification of Leucine Dehydrogenase by Affinity Chromatography .....	109
Naomichi Baba, Jun'ichi Oda, and Yuzo Inouye: Addition Effects of Some Macrocyclic Polyethers on the Asymmetric Reduction with Chiral NADH Model Compounds .....	113
<b>Communication</b>	
Yukio Kawakami, Yukio Yamamoto, Jun'ichi Oda, Yuzo Inouye, and Seiji Sawada: Synthesis and Complexation of an Optically Active Aza-Crown Ether .....	117
<b>Reviews</b>	
Shigeo Tanimoto and Hideyuki Ikehira: The Use of Acrylic Compounds in Organic Synthesis. Part-1 .....	120
Eiichi Fujita, Kaoru Fuji, Yoshimitsu Nagao, Manabu Node, and Masahito Ochiai: The Chemistry of Diterpenoids in 1980 .....	142
Akikazu Hatanaka: Biosynthesis of Leaf Alcohol .....	180
Tadahiko Kajiwar: Male Gamete-Attracting Substances of Marine Algae .....	193

京都大学化学研究所報告 第61卷第2号

昭和58年8月10日 印刷

【非売品】

昭和58年8月15日 発行

京都府宇治市五ヶ庄

京都大学化学研究所

編集兼発行人

藤 田 栄 一

〒733 広島市中区十日市町二丁目1番15号

印刷所

大学印刷株式会社

電話(082)(231)4231番(代表)

広島市中区十日市町二丁目1番15号

印刷者

増 田 達 夫